

# Aheli Ghosh

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[Github](#) | [Linkedin](#) | [Website](#)

## EDUCATION

<b>Delhi Technological University</b>	2017-2021
B. Tech, Computer Engineering CGPA: 8.84 / 10.0, First division with distinction	New Delhi
<b>New Sainik Public Sr. Sec. School</b>	2017
CBSE AISSCE: 93.5%	New Delhi

## WORK EXPERIENCE

<b>Software Engineer, Microsoft</b>	June 2021 – Present
<ul style="list-style-type: none"><li>Part of the Fluid Framework and Experiences team. (<a href="#">product</a>)</li><li>Leveraging <b>React</b> and <b>Typescript</b> to build collaborative, low-latency components that integrate with Teams, Outlook and the M365 Suite.</li></ul>	
<b>Summer Analyst, Citibank</b> ( <a href="#">ppt</a> )	June 2020 – July 2020
<ul style="list-style-type: none"><li>Launched end-to-end tool for task-based categorization of incoming email stream.</li><li>Solely responsible for data preprocessing with <b>Spacy NLP pipeline</b>, word vectorization with <b>GloVe 6B embeddings</b>. Employed <b>few-shot learning</b> with machine learning algorithms.</li><li>Accomplished response time of 20 ms/prediction with XGBoost algorithm (<b>89% accuracy</b>).</li></ul>	
<b>Student Researcher, Samsung Innovation Lab, DTU</b> ( <a href="#">link</a> )	March 2020 – Jan 2021
<ul style="list-style-type: none"><li>Mobile camera based app to detect effects of flame gazing exercise on sustained attention span. (<a href="#">demo</a>)</li><li>Utilized OpenCV and Dlib for pupil tracking.</li><li>Achieved avg. <b>3.3% increase</b> in attention in volunteers.</li></ul>	
<b>Internship Trainee, Maruti Suzuki India Ltd</b>	Dec 2018 – Jan 2019
<ul style="list-style-type: none"><li>Learned to utilize <b>SQL</b> querying on the company's attendance management database.</li><li>Increased accuracy by <b>20%</b>, which aided better tracking of attendance defaulters.</li></ul>	

## PUBLICATIONS

**"Fighting Media Hyper-partisanship with Modern Language Representation Models"**

Presented at [ICDAM 2021](#) (double-blind peer reviewed), [Paper](#) in Press with [Springer Lecture Notes](#)

**"mFlameGaze: Mobile-Based Flame Gazing for Improving Sustained Attention"**

Presented at [COMSNETS 2021](#) (peer reviewed) NetHealth Workshop, Paper link: [IEEE Xplore](#)

**"Classifying Question Papers with Bloom's Taxonomy Using Machine Learning Techniques"**

Presented at [ICACDS 2019](#) (double-blind peer reviewed), Paper link: [Springer CCIS](#)

## TECHNICAL PROJECTS

<b>Trippin</b> ( <a href="#">link</a> )	Build for India Hackathon, IIT Delhi 2019
<ul style="list-style-type: none"><li>Developed an innovative road safety Android app to display optimal color-coded routes based on danger-index. Added features: driver mode, emergency SOS, post updates/complaints feed.</li><li>Used MapMyIndia API to access routes, Firebase Realtime Database to handle posts and Google Places API for searching nearest hospitals/police stations.</li></ul>	
<b>FemHealth360</b> ( <a href="#">link</a> ) ( <a href="#">View live</a> )	
<ul style="list-style-type: none"><li>Developed a platform for women's all-round wellbeing: period tracker to alert for possible menstrual abnormalities, personalized meal plans curator and exercise recommendations.</li><li>Technology used: ExpressJS, Bootstrap, jsCalendar, Backend: MongoDB, NodeJS, hosted on Heroku.</li></ul>	
<b>Text Emojifier</b> ( <a href="#">link</a> )	
<ul style="list-style-type: none"><li>Built text message sentiment analysis model that classifies amongst five chosen emojis.</li><li>Employed GloVe word embeddings and stacked LSTMs with early stopping.</li></ul>	
<b>Telegram News Bot</b> ( <a href="#">link</a> )	
<ul style="list-style-type: none"><li>Implemented a conversational Telegram chatbot(@aheli_news_bot) to display news of any type/language.</li><li>Utilized: Dialogflow, Gnewsclient, Flask (backend), hosted on Heroku.</li></ul>	

## ACHIEVEMENTS

- Received **2nd** prize at LinkedIn Wintathon for mentor matching app, 2020
- Received **2nd** prize at American Express Makeathon for investments suggestion app, 2020
- In top **6** teams, **hack.asia** finals, Singapore 2019
- Qualified **DELTA A2** with **85%** score, 2018 (Issued by the French Ministry of Education)
- National Talent Search Examination(NTSE) Scholar**, 2015 (in top 750 out of 800k applicants)

## SKILLS

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Programming: C, C++, Python, MySQL, HTML, Typescript

Operating Systems: Windows, Linux, MacOS

Frameworks/Libraries: Scikit-Learn, Numpy, Pandas, Matplotlib, Flask, BeautifulSoup, Scrapy, OpenCV, Tensorflow, Git, MongoDB, ExpressJS, React, Jest, NodeJS

## VOLUNTEER/EXTRACURRICULAR EXPERIENCES

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- Chief Technical Head, Computer Society of India-DTU (2020-21): Conducted DSA classes & prepared quizzes.
- Member, Climb, DTU: Mentored 25 girls at [SheHacks](#) hackathon, [Wrote](#) (Pg 10) for the Climb newsletter.
- Volunteer, Rotaract Club, DTU: Executed fundraiser for HelpAge India, 2019 - Successfully raised INR 20k, Taught art and basic computer literacy to students (7-10 years old) at a school for underprivileged children.
- Member of Indian classical vocal choir at Madhurima (music society) DTU.